

2ashmount

1649

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/992,914C

DATE: 08/13/1999  
TIME: 11:32:50

Input Set: H992914C.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

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1  <110> APPLICANT: WATANABE, Eijiro
2      OEDA, Kenji
3  <120> TITLE OF INVENTION: Raffinose Synthase Genes and Their Use
4  <130> FILE REFERENCE: 0020-4348P
5  <140> CURRENT APPLICATION NUMBER: US/08/992,914C
6  <141> CURRENT FILING DATE: 1997-12-18
7  <150> EARLIER APPLICATION NUMBER: 8-338673/1996 JAPAN
8  <151> EARLIER FILING DATE: 1996-12-18
9  <160> NUMBER OF SEQ ID NOS: 86
10 <170> SOFTWARE: PatentIn Ver. 2.0
11 <210> SEQ ID NO 1
12 <211> LENGTH: 2746
13 <212> TYPE: DNA
14 <213> ORGANISM: Vicia faba
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27      Gly Asn Gly Asn Ser Pro Leu Phe Ser Ile Thr Leu Asp Gln Ser Arg
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29      gac ttc ctt gca aat ggc cac cct ttc ctc acc caa gtc cca cct aac 259
30      Asp Phe Leu Ala Asn Gly His Pro Phe Leu Thr Gln Val Pro Pro Asn
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38      caa ggt tgt ttc gtt ggt ttc aac tcc acc gaa ccc aaa agc cac cac 403
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69	Phe	Tyr	Leu	Lys	Val	His	Pro	Lys	Gly	Val	Trp	Glu	Gly	Val	Lys	Ser	
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71	ctc	aca	gat	ggt	ggt	tgt	cct	ccc	ggt	ttc	gtc	ata	atc	gac	gac	ggt	931
72	Leu	Thr	Asp	Gly	Gly	Cys	Pro	Pro	Gly	Phe	Val	Ile	Ile	Asp	Asp	Gly	
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74	tgg	caa	tcc	att	tgt	cat	gac	gat	gac	gat	gaa	gat	gat	tca	gga	atg	979
75	Trp	Gln	Ser	Ile	Cys	His	Asp	Asp	Asp	Asp	Glu	Asp	Asp	Ser	Gly	Met	
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87	Ser	Val	Glu	Ser	Val	Tyr	Val	Trp	His	Ala	Leu	Cys	Gly	Tyr	Trp	Gly	
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99	His Glu Met Phe Asp Gly Leu His Ser His Leu Glu Ser Ala Gly Ile	
100	410 415 420	
101	gac ggt gtt aaa gtt gat gtt atc cat ctg ctt gag tta cta tca gag	1411
102	Asp Gly Val Lys Val Asp Val Ile His Leu Leu Glu Leu Leu Ser Glu	
103	425 430 435	
104	gaa tat ggt gga cga gtt gag cta gca aga gct tat tac aaa gca cta	1459
105	Glu Tyr Gly Gly Arg Val Glu Leu Ala Arg Ala Tyr Tyr Lys Ala Leu	
106	440 445 450	
107	acc tca tca gtg aag aaa cat ttc aaa ggc aat ggt gta att gct agc	1507
108	Thr Ser Ser Val Lys Lys His Phe Lys Gly Asn Gly Val Ile Ala Ser	
109	455 460 465	
110	atg gag cat tgc aac gac ttc ttt ctc ctc ggc acc gaa gcc ata tcc	1555
111	Met Glu His Cys Asn Asp Phe Phe Leu Leu Gly Thr Glu Ala Ile Ser	
112	470 475 480 485	
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114	Leu Gly Arg Val Gly Asp Asp Phe Trp Cys Ser Asp Pro Ser Gly Asp	
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116	cca aat ggt aca tat tgg ctc caa ggt tgt cac atg gta cat tgt gcc	1651
117	Pro Asn Gly Thr Tyr Trp Leu Gln Gly Cys His Met Val His Cys Ala	
118	505 510 515	
119	tac aac agt tta tgg atg gga aat ttc att cag cca gat tgg gac atg	1699
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125	ata tcc ggc gga cca att tat gtt agt gat tgt gtt ggt aat cac aat	1795
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132	Cys Gln His Tyr Ala Leu Pro Thr Arg Asp Cys Leu Phe Glu Asp Pro	
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134	ttg cat aat ggc aaa aca atg ctg aaa att tgg aat ctc aac aaa tat	1939
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149  aag aaa ttg agg ctc atg aag tgt tct gat aga ttg aaa gtt tcg ctt 2179
150  Lys Lys Leu Arg Leu Met Lys Cys Ser Asp Arg Leu Lys Val Ser Leu
151          680          685          690
152  gag cca ttt agt ttt gag cta atg aca gtg tct cca gtg aaa gtg ttt 2227
153  Glu Pro Phe Ser Phe Glu Leu Met Thr Val Ser Pro Val Lys Val Phe
154          695          700          705
155  tcg aaa agg ttt ata cag ttt gca ccg att ggg tta gtg aac atg ctg 2275
156  Ser Lys Arg Phe Ile Gln Phe Ala Pro Ile Gly Leu Val Asn Met Leu
157  710          715          720          725
158  aac tct ggt ggt gcg att cag tct ctg gag ttt gat gat aat gca agt 2323
159  Asn Ser Gly Gly Ala Ile Gln Ser Leu Glu Phe Asp Asp Asn Ala Ser
160          730          735          740
161  ttg gtc aag att ggg gtg aga ggt tgc ggg gag atg agc gtg ttt gcg 2371
162  Leu Val Lys Ile Gly Val Arg Gly Cys Gly Glu Met Ser Val Phe Ala
163          745          750          755
164  tct gag aaa ccg gtt tgc tgc aaa att gat ggg gtt aag gtg aaa ttt 2419
165  Ser Glu Lys Pro Val Cys Cys Lys Ile Asp Gly Val Lys Val Lys Phe
166          760          765          770
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170  tca aca ttg tct ttg gtc cag ttt tta ttt tgatccctag gaatcctatg 2517
171  Ser Thr Leu Ser Leu Val Gln Phe Leu Phe
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173  cacgtgtctc tgtttacaag tactttatat aagtataata tgtatctatt tccattttta 2577
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Input Set: H992914C.RAW

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200	Asp	Lys	Asn	Asp	Ser	Leu	Gly	Arg	Pro	Tyr	Val	Leu	Leu	Leu	Pro	Ile
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202	Leu	Glu	Asn	Thr	Phe	Arg	Thr	Ser	Leu	Gln	Pro	Gly	Leu	Asn	Asp	His
203				165						170				175		
204	Ile	Gly	Met	Ser	Val	Glu	Ser	Gly	Ser	Thr	His	Val	Thr	Gly	Ser	Ser
205			180					185				190				
206	Phe	Lys	Ala	Cys	Leu	Tyr	Ile	His	Leu	Ser	Asn	Asp	Pro	Tyr	Ser	Ile
207		195					200				205					
208	Leu	Lys	Glu	Ala	Val	Lys	Val	Ile	Gln	Thr	Gln	Leu	Gly	Thr	Phe	Lys
209		210				215					220					
210	Thr	Leu	Glu	Glu	Lys	Thr	Ala	Pro	Ser	Ile	Ile	Asp	Lys	Phe	Gly	Trp
211	225				230					235					240	
212	Cys	Thr	Trp	Asp	Ala	Phe	Tyr	Leu	Lys	Val	His	Pro	Lys	Gly	Val	Trp
213				245					250					255		
214	Glu	Gly	Val	Lys	Ser	Leu	Thr	Asp	Gly	Gly	Cys	Pro	Pro	Gly	Phe	Val
215			260					265				270				
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232	Pro	Pro	Asp	Phe	Ala	His	Glu	Met	Phe	Asp	Gly	Leu	His	Ser	His	Leu
233				405					410					415		
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237		435				440					445					
238	Tyr	Tyr	Lys	Ala	Leu	Thr	Ser	Ser	Val	Lys	Lys	His	Phe	Lys	Gly	Asn
239		450				455					460					
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241	465				470					475					480	
242	Thr	Glu	Ala	Ile	Ser	Leu	Gly	Arg	Val	Gly	Asp	Asp	Phe	Trp	Cys	Ser
243				485					490					495		
244	Asp	Pro	Ser	Gly	Asp	Pro	Asn	Gly	Thr	Tyr	Trp	Leu	Gln	Gly	Cys	His

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Input Set: H992914C.RAW

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1128	W "N" or "Xaa" used: Feature required	tanaangcnt cccangtnca ccancnnaan ttntcnat
1141	W "N" or "Xaa" used: Feature required	ggnggntgnc cncnggntt ngtnatnatn gangangg
1154	W "N" or "Xaa" used: Feature required	tgccancnt cntcnatnat nacnaancn ggnggnca
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1206	W "N" or "Xaa" used: Feature required	aacatntccc antcnggntg natnaanttn cccatcca
1219	W "N" or "Xaa" used: Feature required	catnttnacn arncnatng gngcnaa
1228	W "N" or "Xaa" used: Feature required	aaracngcnc cnagyathat hgacaa
1237	W "N" or "Xaa" used: Feature required	aarathtgga ayctnaacaa
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